Performance Data Sheet

RKA5513CXA

General Information

Model	RKA5513CXA	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3680	3570					
	Watts	604	630					
	Amps	6.05	6.27					
	Lb/h	50.7	49.3					
-10	Btu/h	4230	4060	3890				
	Watts	623	657	691				
	Amps	6.21	6.49	6.77				
	Lb/h	56.9	55.5	54.1				
-5	Btu/h	4880	4650	4400	4160			
	Watts	640	680	721	763			
	Amps	6.35	6.68	7.02	7.38			
	Lb/h	64.1	62.7	61.3	59.9			
0	Btu/h	5630	5330	5020	4710	4400		
	Watts	655	702	750	798	848		
	Amps	6.46	6.85	7.25	7.66	8.08		
	Lb/h	72.4	71.0	69.6	68.2	66.7		
5	Btu/h	6470	6100	5730	5350	4980		
	Watts	666	720	775	831	887		
	Amps	6.54	6.99	7.45	7.92	8.40		
	Lb/h	81.8	80.4	78.9	77.5	76.0		
10	Btu/h	7410	6970	6540	6090	5650	5200	4750
	Watts	675	736	798	860	924	988	1050
	Amps	6.61	7.12	7.63	8.16	8.69	9.24	9.80
	Lb/h	92.2	90.7	89.3	87.9	86.4	84.9	83.3
15	Btu/h	8430	7940	7430	6930	6420	5910	5390
	Watts	681	749	818	888	958	1030	1100
	Amps	6.65	7.22	7.79	8.37	8.97	9.57	10.2
	Lb/h	104	102	101	99.2	97.8	96.3	94.7
20	Btu/h	9550	8990	8430	7860	7280	6710	6120
	Watts	684	760	836	912	989	1070	1150
	Amps	6.67	7.30	7.93	8.57	9.22	9.88	10.6
	Lb/h	116	115	113	112	110	109	107

25	Btu/h	10800	10100	9510	8880	8240	7600	6950
	Watts	685	767	850	934	1020	1100	1190
	Amps	6.67	7.35	8.04	8.74	9.45	10.2	10.9
	Lb/h	129	128	127	125	124	122	121
30	Btu/h	12100	11400	10700	9990	9290	8580	7870
	Watts	682	772	862	953	1040	1140	1230
	Amps	6.65	7.39	8.14	8.90	9.66	10.4	11.2
	Lb/h	144	142	141	139	138	137	135
35	Btu/h	13500	12700	11900	11200	10400	9660	8880
	Watts	676	773	871	969	1070	1170	1270
	Amps	6.61	7.41	8.22	9.03	9.86	10.7	11.5
	Lb/h	159	158	156	155	153	152	150
40	Btu/h	14900	14100	13300	12500	11700	10800	9990
	Watts	667	771	876	982	1090	1190	1300
	Amps	6.55	7.41	8.28	9.15	10.0	10.9	11.8
	Lb/h	175	174	173	171	170	168	167
45	Btu/h	16500	15600	14700	13900	13000	12100	11200
	Watts	654	766	879	992	1110	1220	1330
	Amps	6.48	7.40	8.32	9.25	10.2	11.1	12.1
	Lb/h	193	191	190	189	187	186	184
50	Btu/h	18100	17200	16300	15300	14400	13400	12500
	Watts	638	758	878	999	1120	1240	1360
	Amps	6.38	7.36	8.34	9.33	10.3	11.3	12.4
	Lb/h	211	210	208	207	206	204	203
55	Btu/h	19900	18900	17900	16900	15900	14800	13800
	Watts	619	747	875	1000	1130	1260	1390
	Amps	6.27	7.31	8.35	9.40	10.5	11.5	12.6
	Lb/h	230	229	227	226	225	224	222

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.020273E+03	2.914480E+02	3.455479E+00	8.354571E+01
C2	2.631779E+02	-8.906197E+00	-7.616529E-02	1.769700E+00
C3	-3.005507E+01	4.565556E+00	3.782206E-02	-1.402087E-01
C4	1.834405E+00	-6.643466E-02	-4.890275E-04	1.988595E-02
C5	-1.300705E+00	1.488653E-01	1.232089E-03	8.553369E-05
C6	8.885638E-03	-2.098547E-03	-2.379930E-05	5.724807E-05
C7	-1.392586E-03	-8.379875E-05	8.063731E-07	-1.318968E-05
C8	8.168016E-04	1.483882E-04	3.050444E-07	9.823180E-06
C9	-5.256104E-05	-6.134423E-05	-4.239570E-07	-1.602486E-06
C10	-8.450692E-05	2.249898E-05	2.490356E-07	-4.797276E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature